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July 3, 2007

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Subject: Residential Study Area Near the Former Celotex Site

2800 South Sacramento Avenue, Chicago, IL Residential Soil Sampling Report – Addendum

Dear Ms. Sleboda:

This report is being submitted as an addendum to the FINAL Residential Soil Sampling Report (CH2M HILL, December 2006) that was submitted to the U.S. Environmental Protection Agency (USEPA) on December 6, 2006. This addendum documents the additional residential soil sampling that was conducted in May 2007 within the study area surrounding the former Celotex Site located at 2800 South Sacramento Avenue in Chicago, Illinois (the Site). The additional residential soil sampling documented herein was performed in accordance with the notification submitted to USEPA in letters dated April 25 and May 8, 2007. This letter is being submitted on behalf of Honeywell International Inc. (Honeywell).

Introduction

Residential soil sampling was conducted in 2006 to characterize the residential study area surrounding the Former Celotex Site to supplement previous sampling. Access agreements to all residential properties within the residential study area could not be obtained during the 2006 event. The additional residential soil sampling outlined in this letter was conducted following receipt of additional access agreements received from property owners. Fifteen additional access agreements were received and those properties were

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sampled during this additional investigation. These properties are the same as those identified in the April 25 and May 8, 2007 letters to USEPA and are shown on Figure 2-1.

The sampling rationale and field activities for this investigation were conducted in accordance with the approved FINAL Residential Soil Sampling Work Plan (CH2M HILL, June 2006). As stated in the Work Plan, up to five sampling points for each property may be collected; with one to two locations in the front yard and three to four in the back. If a small side yard was present, it was combined with the smaller of the front or back yard and sampled as part of the front or back yard composite.

Surface soil samples were collected from the 0 to 6-inch depth interval. To evaluate the vertical extent, shallow subsurface soil samples were collected from the 6 to 24-inch and 24 to 36-inch depth intervals. Sample aliquots from the boring locations in each yard were combined to form the composite sample from each depth interval. The depth intervals (or portions of depth intervals) in yards previously sampled were not re-sampled during this investigation. The depth intervals not sampled previously were sampled to evaluate the potential vertical extent of polycyclic aromatic hydrocarbons (PAHs).

Field Activities

Field activities were completed in May 2007 and were conducted in accordance with the approved FINAL Residential Soil Sampling Work Plan (CH2M HILL, 2006).

Pre-Boring Assessments

After signed access agreements were obtained and prior to sampling, each property was visited to collect site information, and develop an address-specific sampling plan. A site checklist was utilized to obtain and document information collected for each property, including any input from property owners. A complete list of information recorded during the site visit is identified in the FINAL Residential Soil Sampling Report (CH2M HILL, 2006). A site plan with dimensions of site features was created for each property visited. These plans are included in Attachment A.

Utility Locating

Prior to any onsite activity, a utility locate request was submitted to the Chicago Utility Alert Network (DIGGER) for each property. Since DIGGER only locate utilities to the property line, a private locating firm was utilized to locate utilities within the boundaries of each residential property. The private locating firm utilized the DIGGER marks in order to follow the utilities on to the property. In addition, the private locater also connected to exposed utility lines on the residential property (such as gas meters and water spigots) to locate utilities from the property building outward. In most cases the utility marks from both the private locater and DIGGER met at the property line, however sometimes the lines

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did not meet. In these cases, the marks of the private locater were used for the placement of boring locations.

Sampling Activity

Sampling at each property proceeded through the same general sequence of steps based on safe work practices and procedures, required soil sampling methods and procedures, and to minimize disruption and noise to the property occupants and neighborhood. The sampling crew worked with the property owners and occupants to minimize time and impact to each property.

Samples were collected using a 4-foot long Geoprobe® Macro-Core® sampler with dedicated polyethylene soil sleeves driven into the ground using an electric jackhammer. The sampler was removed from the ground using a vehicle floor jack. In locations where this equipment could not be used, a hand auger was utilized to collect soil samples.

A complete list of steps undertaken during the sampling activities, including collection of quality control/quality assurance (QA/QC) samples, is located in the FINAL Residential Soil Sampling Report (CH2M HILL, 2006).

Boring locations were selected in a consistent manner for each similar property layout. The sampling rationale for each sampled property during the May 2007 event is contained in Table 1, where the table is subdivided by sampling area. The boring locations for each property are presented on the site plans in Attachment A.

Sampling Equipment Decontamination

All non-disposable sampling equipment was decontaminated after each use utilizing a laboratory grade detergent wash and distilled water rinse. One equipment blank sample was collected in accordance with QA/QC requirements to ensure cross-contamination was not occurring.

Results of the May 2007 Residential Soil Sampling

Sample Data Evaluation

Lancaster Laboratories Inc., a contracted independent laboratory, conducted the analyses of the soil samples. All soil samples were analyzed for PAHs using the USEPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, Method 8270C, Semi-volatile Organic Compounds by Gas Chromatography/Mass Spectrometry. The specific compounds reported consist of the following seven PAHs that contribute to the benzo(a)pyrene equivalent (BAPEQ) concentration:

- Benzo(a)anthracene
- Benzo(a)pyrene

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- Benzo(b)fluoranthene
- Benzo(k)fluoranthene
- Chrysene
- Dibenz(a,h) anthracene
- Indeno(1,2,3-cd)pyrene

The analytical results are presented through calculation of the BAPEQ concentration in accordance with USEPA-approved procedures. The BAPEQ concentration is the sum of the concentrations of seven PAH compounds, after each concentration is multiplied by that compounds relative potency (as compared to benzo(a)pyrene), as shown in Table 2 below.

TABLE 2
PAH Potency Factors
Residential Study Area
Former Celotex Site – Chicago, Illinois

Compound	Relative Potency
Benzo(a)anthracene	0.1
Benzo(a)pyrene	1
Benzo(b)fluoranthene	0.1
Benzo(k)fluoranthene	0.01
Chrysene	0.001
Dibenz(a,h)anthracene	1
Indeno(1,2,3-cd)pyrene	0.1

Compounds that are non-detect were utilized in the calculation by the standard procedure of assigning the value at ½ of the method detection limit. Estimated values (J qualified) were used at the reported value.

BAPEQ Results

The individual PAH results obtained from the 2007 residential soil sampling event, along with the results from the historic residential soil sampling events, were converted to BAPEQ concentrations to support comparison and evaluation of the results. This data is summarized by portion of the overall residential study area (i.e., northeast quadrant, southwest quadrant, and voluntary area) in Table 3 below. The results are further subdivided by sample depth.

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TABLE 3
Summary of BAPEQ Results – May 2007
Residential Study Area
Former Celotex Site – Chicago, Illinois

Area ¹	No. Properties Sampled ²	No. Properties with BAPEQ Results > 10 ppm (% of total)			
		Any Depth	0-6" bgs	6-24" bgs	24-36" bgs
NE	6	4 (67%)	4 (67%)	1 (33%)	0 (0%)
SW	3	3 (100%)	3 (100%)	0 (0%)	0 (0%)
NW	6	0 (0%)	0 (0%)	0 (0%)	0 (0%)
Total	15	7 (47%)	7 (47%)	1 (7%)	0 (0%)

Portion of Residential Study Area where NE = Northeast Quadrant, SW = Southwest Quadrant; NW = Northwest Area

The individual property results of the 2007 analyses (presented as BAPEQ) are contained in Attachment B, Table B-1, organized from north to south by street. In addition, the historic residential soil sample results (as BAPEQ) for the two properties that were previously sampled are summarized in Attachment B, Table B-2. Attachment B, Tables B-3, B-4, and B-5 identify those properties with BAPEQ results greater than 10 ppm, 5 ppm, and 2 ppm, respectively, while Attachment B, Figure B-1 illustrates the distribution of properties with results greater than 10 ppm. Attachment B, Figures B-2a through B-4c illustrate the distribution of BAPEQ results by area and sample depth. A summary of the individual PAH results and QA/QC samples for the 2007 residential soil sampling is provided in Attachment B, Table B-6. This property-specific information contained in Attachment B is considered confidential.

A summary of the non-property-specific BAPEQ results for the May 2007 residential soil sampling are provided in Appendix C, Table C-1.

Copies of the original analytical reports from 2007 provided by the independent analytical laboratory are available upon request.

Data Validation

Validation of the analytical data generated during the 2007 residential soil sampling event was patterned after the USEPA Contract Laboratory National Functional Guidelines for Organic Data Review (1999). Areas of review include holding time compliance, calibration verification, blank results, matrix spike precision and accuracy, method accuracy as demonstrated by laboratory confirmation samples, field duplicate results, surrogate

² Residential properties sampled in May 2007 and historic results for these same properties

[&]quot; bgs = inches below ground surface, ppm = parts per million

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recoveries, internal standard performance, and interference checks. The data review and validation process is independent of the laboratory's checks and focuses on the usability of the data to support the project data interpretation and decision-making processes. The Data Evaluation is discussed in the memorandum contained in Confidential Attachment D.

The overall assessment of the data indicates that the completeness objectives were met for all method analyte combinations and the precision and accuracy of the data, as measured by the laboratory quality-control indicators, suggests that the project goals have been met.

Conclusions

The additional Residential Soil Sampling was completed in accordance with the USEPA-approved work plan (CH2M HILL, June 2006) and produced analytical results that met the specified quality objectives. The results of this investigation will be utilized to guide residential removal actions as outlined in the FINAL Residential Soil Sampling Report (CH2M HILL, December 2006). Individual property results will be compiled and distributed, along with information on the cleanup process, to the respective property owners in coordination with USEPA. This process will be similar to that conducted during distribution of 2006 residential soil sample results. The removal actions will take place in Summer 2007.

If you have any questions regarding the completed sampling activities, please contact Joel Wipf at 773-693-3800 Ext. 253.

Sincerely,

CH2M HILL

Joel D. Wipf Project Manager

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c: Karen Peaceman/ USEPA Region 5 Chuck Geadlemann/ Honeywell

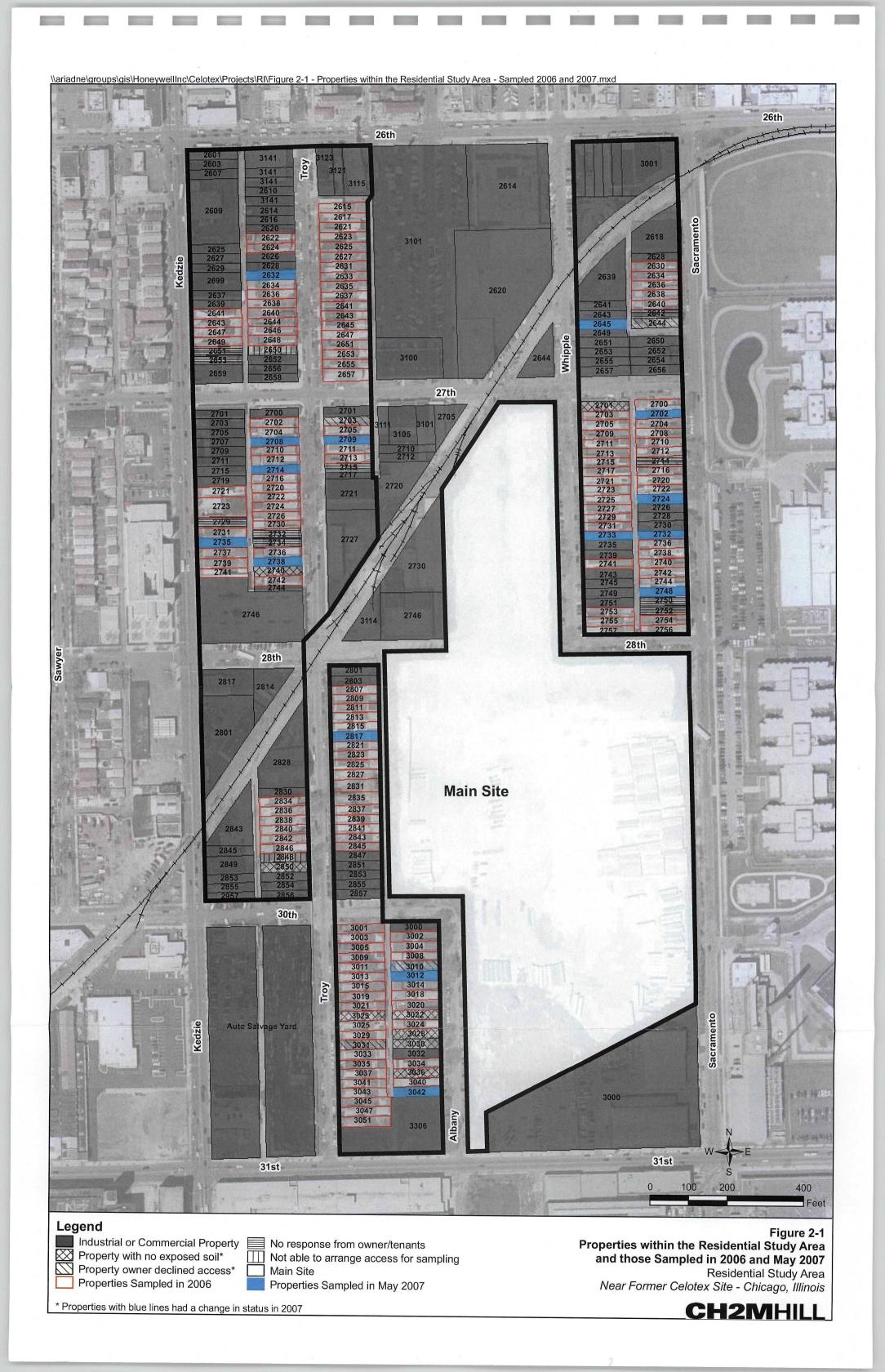


TABLE 1
2007 Residential Sampling Narrative
Residential Study Area
Near Former Celotex Site - Chicago, Illinois

Street Number	Street	Sampling Narrative			
Northeast Quadrant					
2645	South Whipple Street	Two borings drilled in the front yard and three borings in the backyard. Multiple refusals occurred in back yard on buried concrete.			
2702	South Sacramento Avenue	Two borings drilled in the front yard and three borings in the backyard. Property 0-6" soil intervals in the front and backyard were previously sampled. Only intervals sampled were 6-24" and 24-36".			
2724	South Sacramento Avenue	Front yard paved with concrete. Three borings drilled in the backyard, two in a large garden area and one in the grassed area.			
2732	South Sacramento Avenue	Two borings drilled in the front yard and three borings in the backyard. Mulch covering the boring locations was moved aside prior to drilling borings.			
2748	South Sacramento Avenue	Front yard paved with concrete. Three borings drilled in the backyard, between large automobile body parts and debris stored in yard.			
2733	South Whipple Street	Front yard paved with concrete. Three borings drilled in the bare soil backyard.			
Southwest Qua	drant				
3012	South Albany Avenue	Two borings drilled in the front yard and three borings in the backyard.			
3042	South Albany Avenue	Two borings drilled in the front yard and three borings in the backyard. Second backyard boring in southern half of yard located as far north as possible to minimize possible impact from adjacent parking area runoff.			
2817	South Troy Street	Two borings drilled in the front yard and three borings in the backyard.			
Northwest Area					
2632	South Troy Street	Two borings drilled in the front yard and three borings in the backyard. Second backyard boring in northern half of yard located as far south as possible to minimize possible impact from adjacent parking area runoff.			

TABLE 1
2007 Residential Sampling Narrative
Residential Study Area
Near Former Celotex Site - Chicago, Illinois

Street Number	Street	Sampling Narrative
2708	South Troy Street	Front yard sampled in 2006. Three borings drilled in backyard between debris and parked car.
2709	South Troy Street	Two borings drilled in the front yard and three borings in the backyard. Property 0-6" soil intervals in the front and backyard were previously sampled. Only intervals sampled were 6-24" and 24-36".
2714	South Troy Street	Two borings drilled in the front yard and three borings in the backyard.
2738	South Troy Street	Two borings drilled in the front yard and three borings in the backyard. Backyard borings drilled around a built-in aboveground pool
2735	South Kedzie Avenue	Two borings drilled in the front yard and three borings in the backyard.

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ATTACHMENT A

Residential Property Site Plans - May 2007

ATTACHMENT B

Confidential Summary of Analytical Results

ATTACHMENT C

Non-Property Specific Summary of May 2007 BAPEQ Results

TABLE C-1 May 2007 BAPEQ Data Summary

Residential Study Area

Near Former Celotex Site - Chicago, Illinois

Area	Sample Date	Sample Start Depth	Sample End Depth	Sample Depth Units	BAPEQ Result (ppm)
NE	5/1/2007	6	24	inches	2.57
NE	5/1/2007	24	36	inches	0.16
NE	5/1/2007	6	24	inches	3.75
NE	5/1/2007	24	36	inches	0.05
NE	5/1/2007	0	6	inches	16.66
NE	5/1/2007	6	24	inches	0.80
NE	5/1/2007	24	36	inches	0.06
NE	5/9/2007	0	6	inches	0.22
NE	5/9/2007	6	24	inches	10.64
NE	5/9/2007	24	36	inches	0.58
NE	5/9/2007	0	6	inches	22.45
NE	5/9/2007	6	24	inches	17.05
NE	5/9/2007	24	36	inches	0.19
NE	5/1/2007	0	6	inches	28.43
NE	5/1/2007	6	24	inches	4.36
NE	5/1/2007	24	36	inches	0.19
NE	5/1/2007	0	6	inches	3.06
NE	5/1/2007	6	24	inches	4.93
NE	5/1/2007	24	36	inches	2.25
NE	5/1/2007	0	6	inches	2.35
NE	5/1/2007	6	24	inches	3.53
NE	5/1/2007	24	36	inches	0.17
NE	5/1/2007	0	6	inches	18.99
NE	5/1/2007	6	24	inches	7.30
NE	5/1/2007	24	36	inches	1.08
sw	5/2/2007	0	6	inches	14.08
sw	5/2/2007	6	24	inches	2.47
sw	5/2/2007	24	36	inches	0.09
sw	5/2/2007	0	6	inches	19.81
sw	5/2/2007	6	24	inches	4.20
SW	5/2/2007	24	36	inches	1.69
SW	5/2/2007	0	6	inches	14.45
SW	5/2/2007	6	24	inches	1.73
sw	5/2/2007	24	36	inches	0.16
sw	5/2/2007	0	6	inches	20.16
sw	5/2/2007	6	24	inches	5.67
sw	5/2/2007	24	36	inches	0.55
SW	5/9/2007	0	6	inches	14.15
SW	5/9/2007	6	24	inches	8.78
SW	5/9/2007	24	36	inches	0.40
SW	5/9/2007	0	6	inches	20.76
SW	5/9/2007	6	24	inches	3.72
SW	5/9/2007	24	36	inches	0.51
NW	5/2/2007	0	6	inches	3.43
NW	5/2/2007	6	24		0.29
NW	5/2/2007	24	36	inches	
NW	5/2/2007	0	6	inches inches	0.05 4.82

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TABLE C-1
May 2007 BAPEQ Data Summary

Residential Study Area

Near Former Celotex Site - Chicago, Illinois

		Sample Start	Sample End	Sample Depth	BAPEQ Result
Area	Sample Date	Depth	Depth	Units	(ppm)
NW	5/2/2007	6	24	inches	0.05
NW	5/2/2007	24	36	inches	1.88
NW	5/9/2007	0	6	inches	4.07
NW	5/9/2007	6	24	inches	1.43
NW	5/9/2007	24	36	inches	0.05
NW	5/9/2007	0	6	inches	3.58
NW	5/9/2007	6	24	inches	0.98
NW	5/9/2007	24	36	inches	0.05
NW	5/2/2007	0	6	inches	5.87
NW	5/2/2007	6	24	inches	1.32
NW	5/2/2007	24	36	inches	0.05
NW	5/2/2007	6	24	inches	0.87
NW	5/2/2007	24	36	inches	0.05
NW	5/2/2007	6	24	inches	2.32
NW	5/2/2007	24	36	inches	0.11
NW	5/2/2007	0	6	inches	4.29
NW	5/2/2007	6	24	inches	2.17
NW	5/2/2007	24	36	inches	0.09
NW	5/2/2007	0	6	inches	4.97
NW	5/2/2007	6	24	inches	1.63
NW	5/2/2007	24	36	inches	0.16
NW	5/2/2007	0	6	inches	5.84
NW	5/2/2007	6	24	inches	1.52
NW	5/2/2007	24	36	inches	0.08
NW	5/2/2007	0	6	inches	6.06
NW	5/2/2007	6	24	inches	1.97
NW	5/2/2007	24	36	inches	0.12

Notes:

BAPEQ = Benzo(a)pyrene Equivalent

Location codes: B = Back yard, F = Front yard

NE = Northeast, SW = Southwest, NW = Northwest

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